

ACTIVE PHOTONIC BAND-GAP OPTICAL FIBER
Corning Incorporated Docket SP03-162
Juliana Agon Reg. #33,468 (607) 974-6574
1718

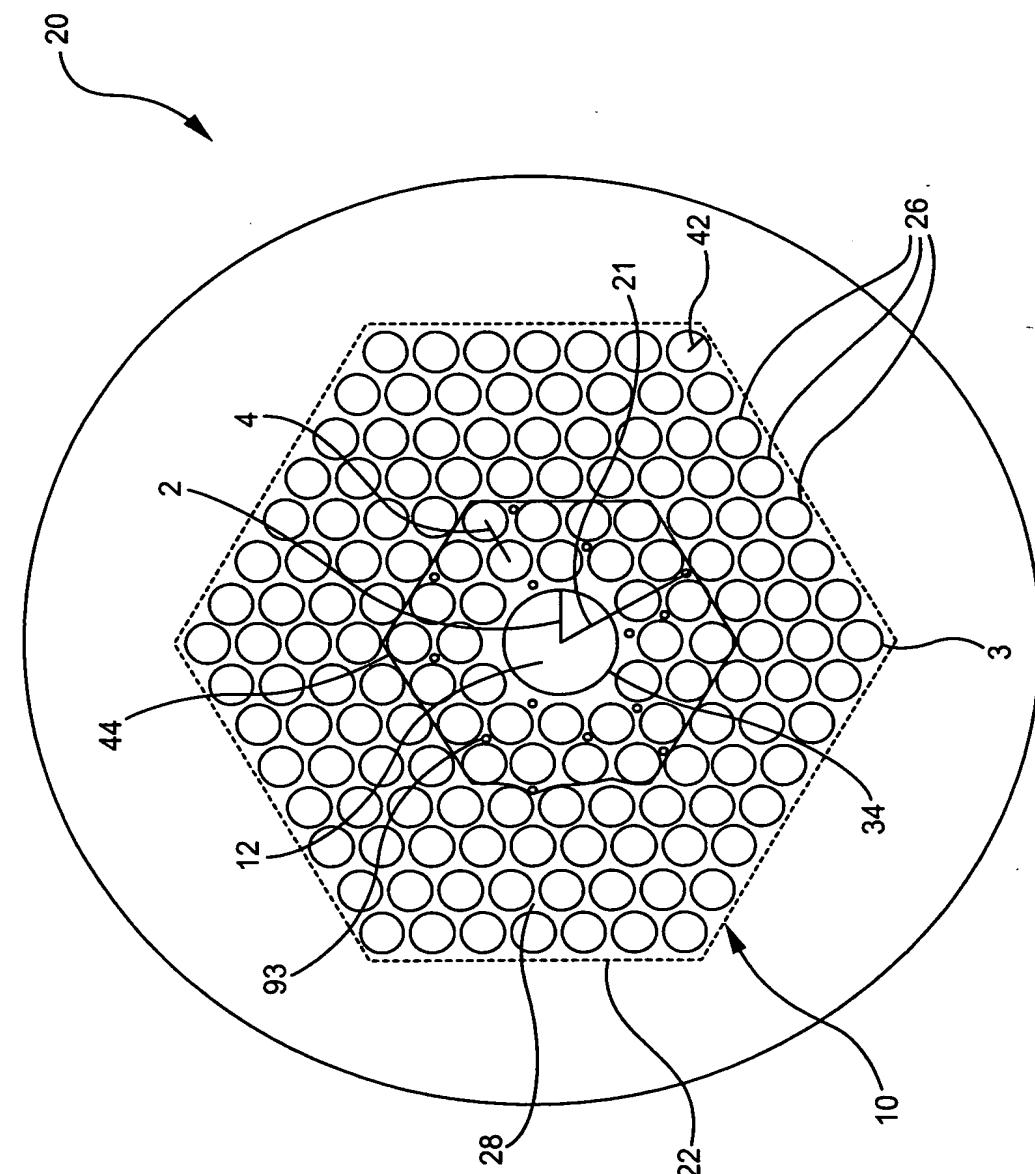


FIG. 1

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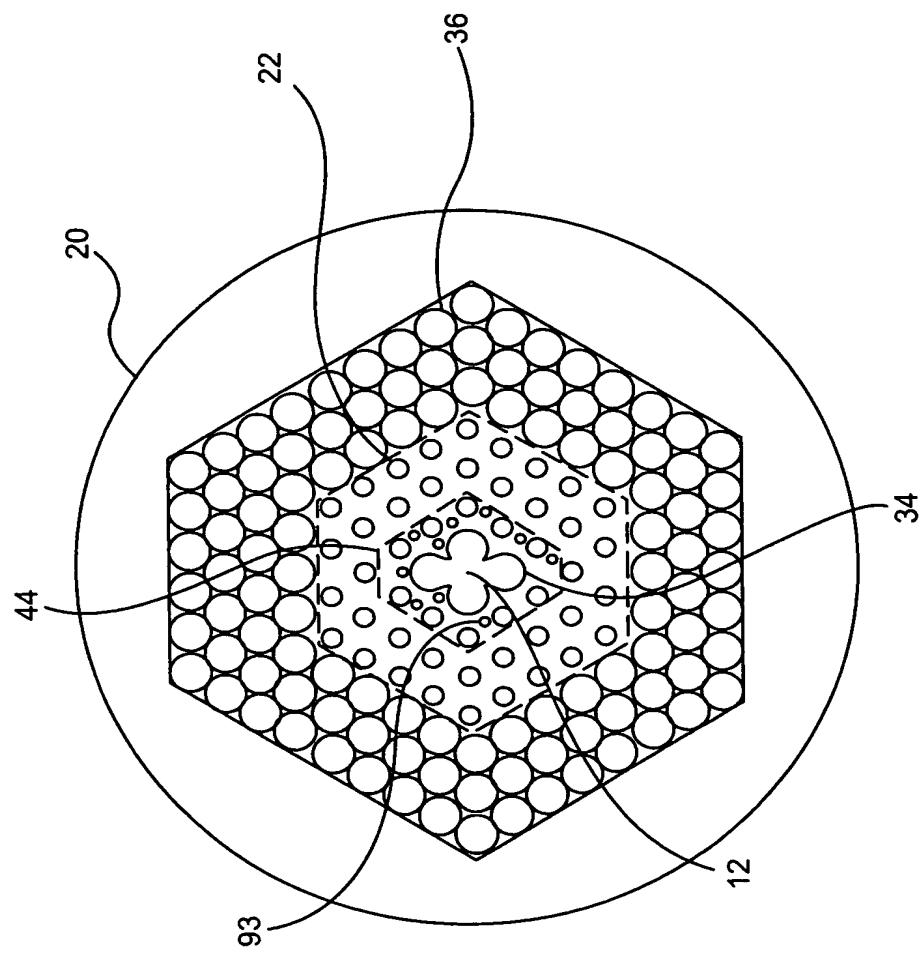


FIG. 2

ACTIVE PHOTONIC BAND-GAP OPTICAL FIBER
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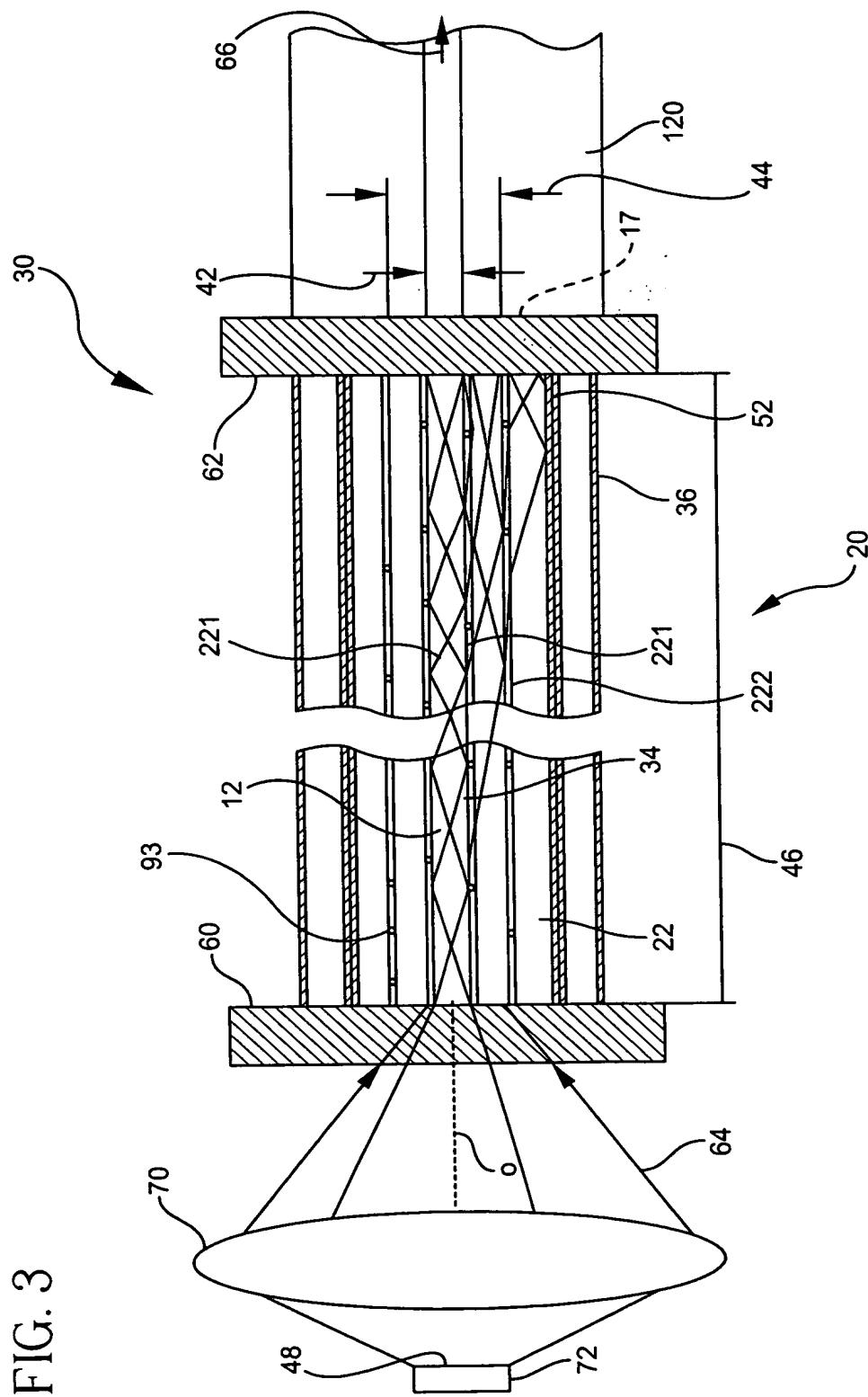


FIG. 3

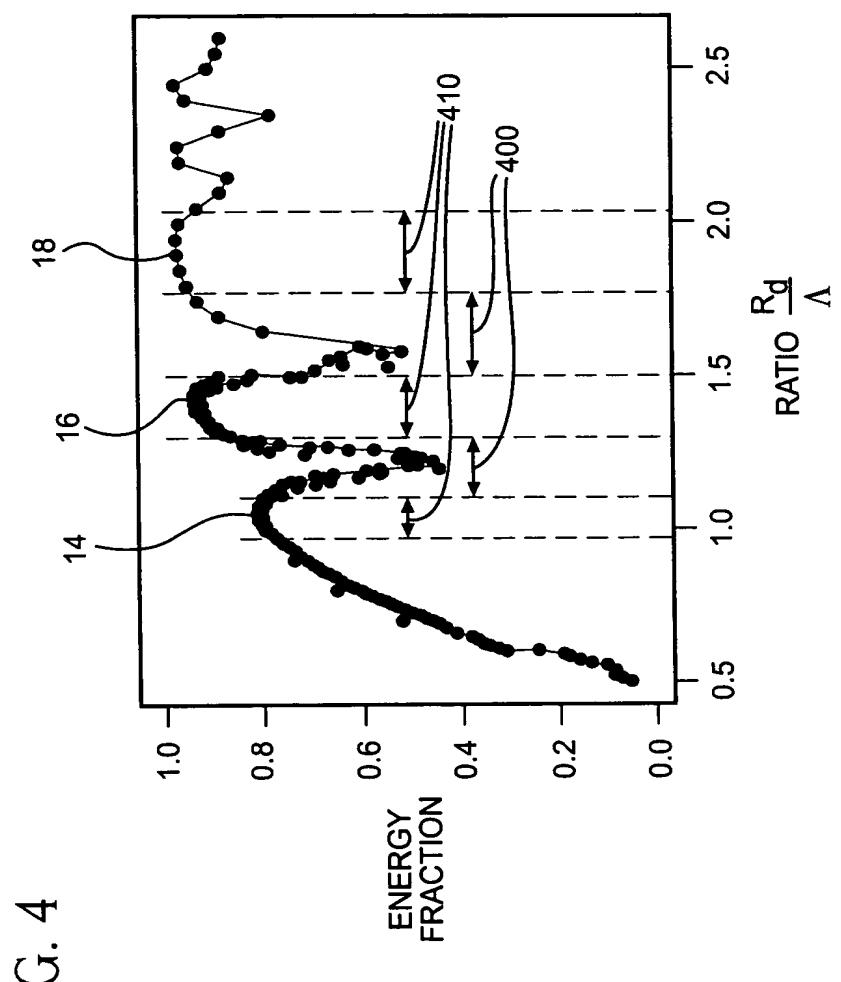


FIG. 4

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FIG. 5

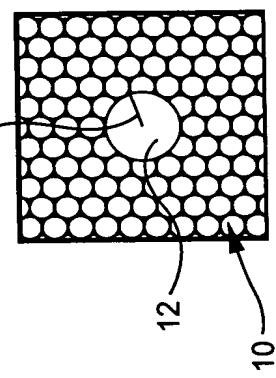
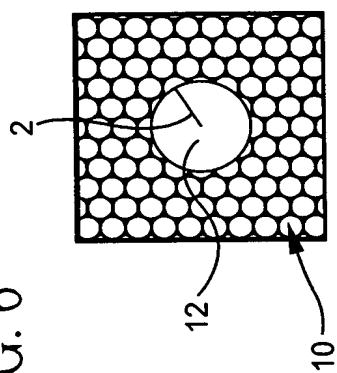


FIG. 6



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FIG. 9

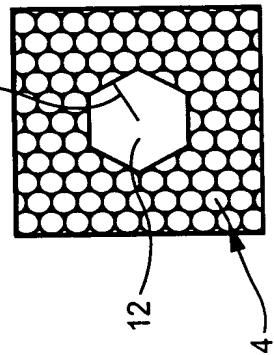


FIG. 8

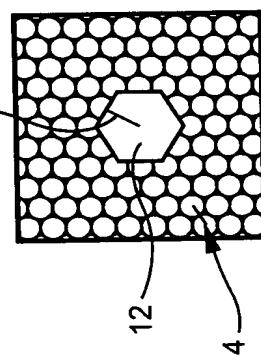
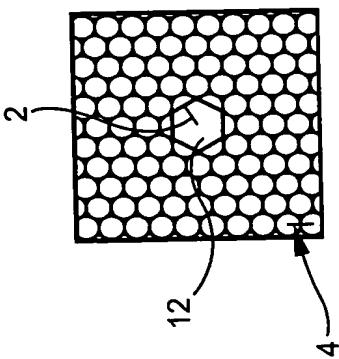


FIG. 7



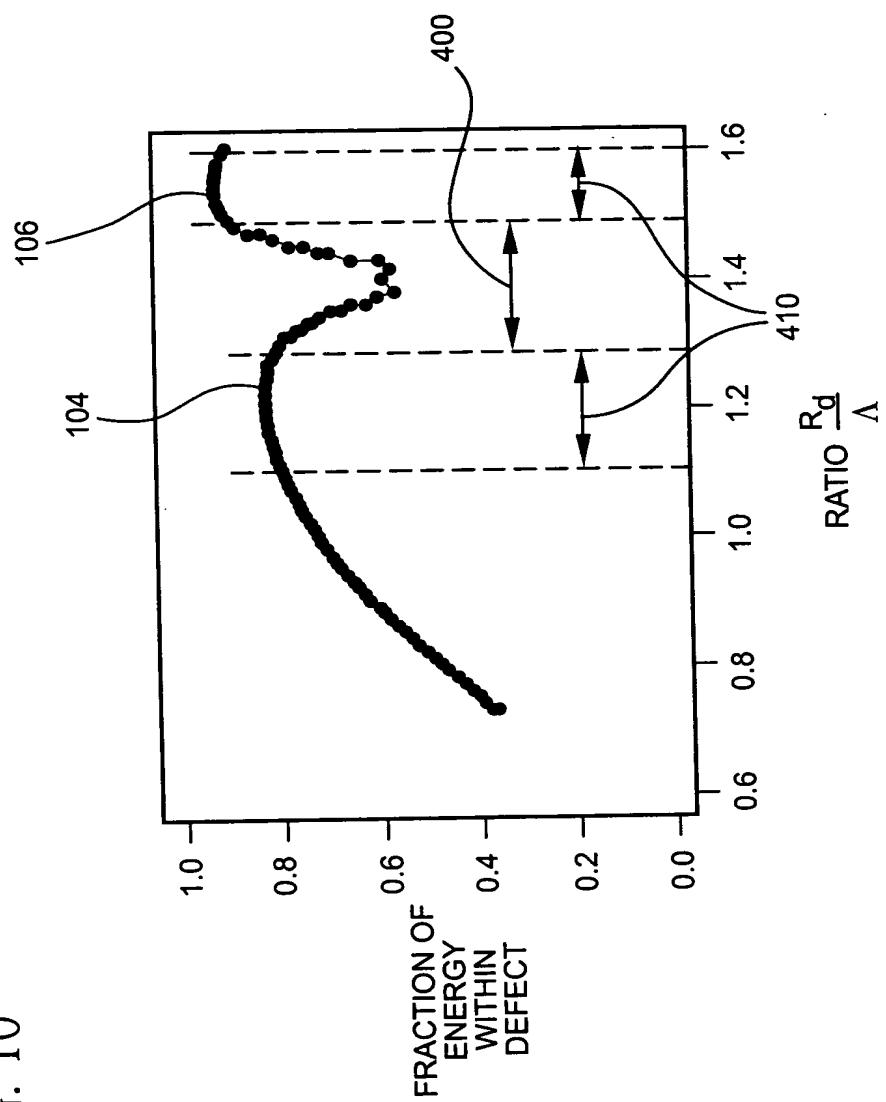


FIG. 10

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FIG. 11

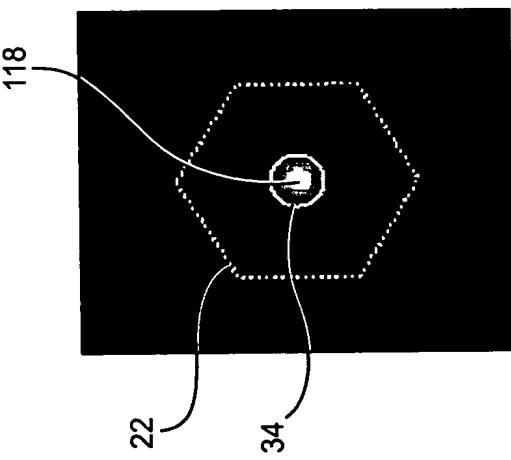
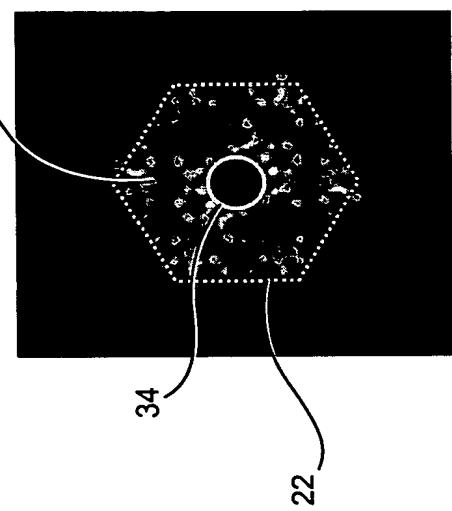


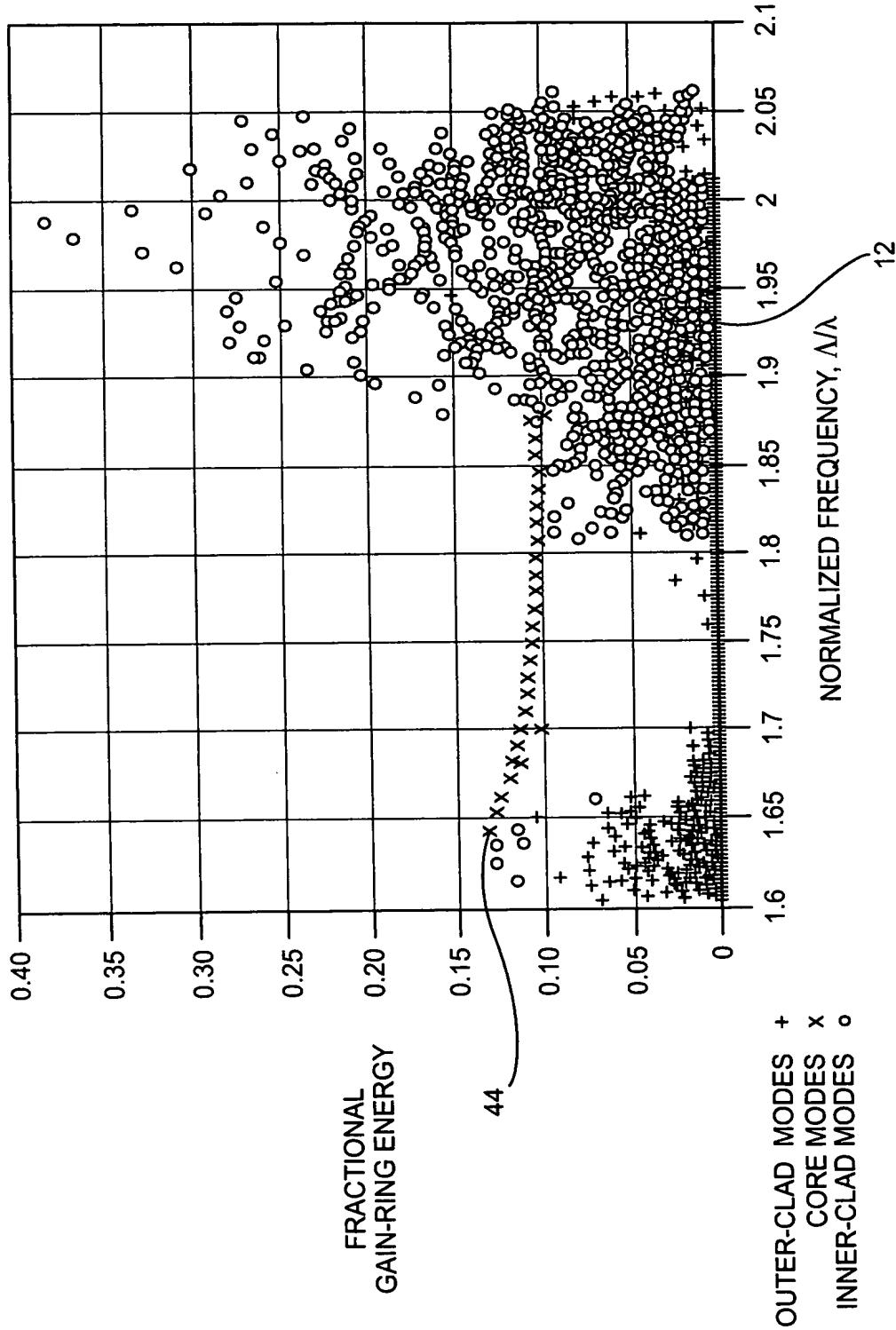
FIG. 12



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FIG. 13



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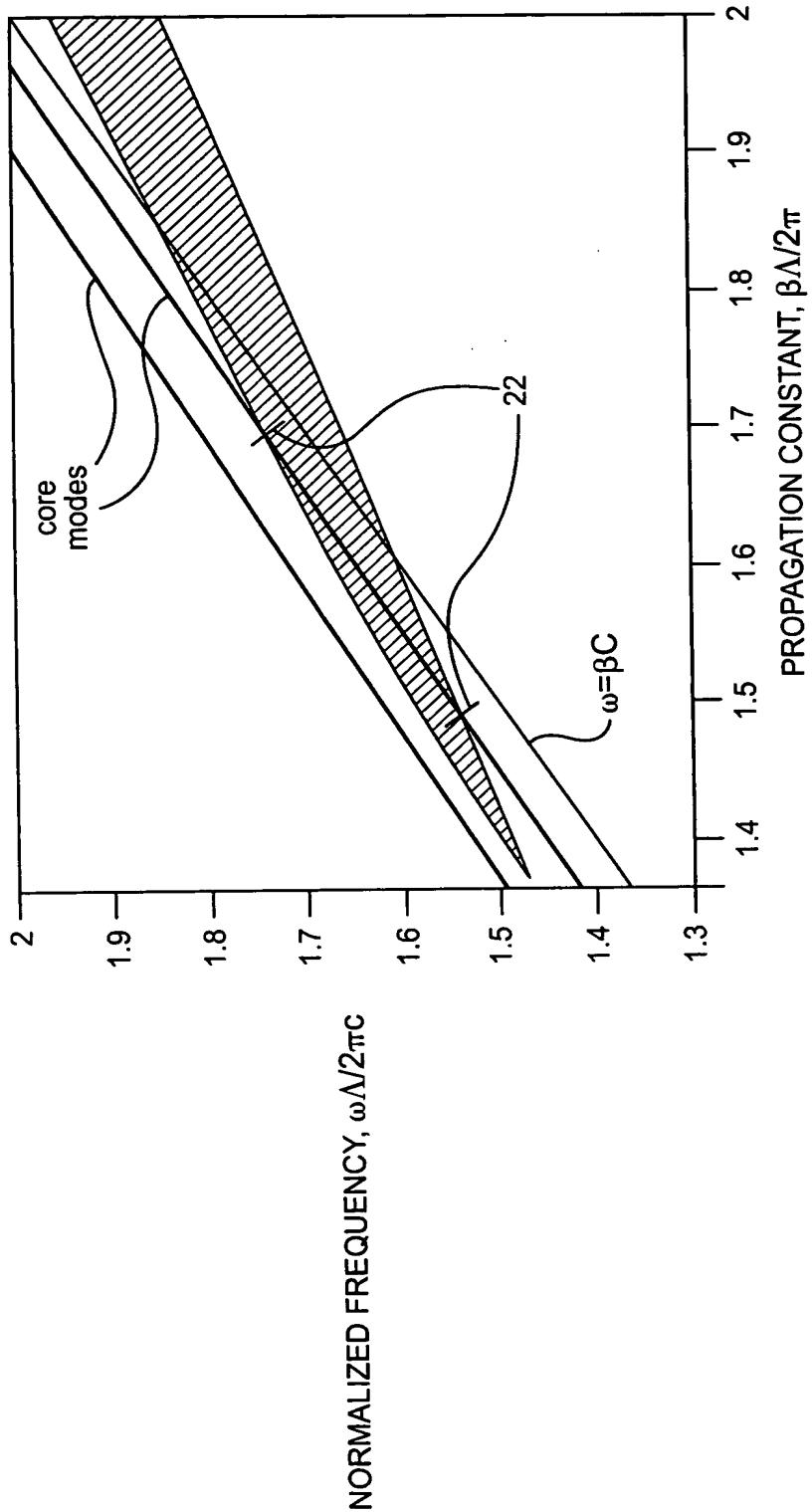


FIG. 14

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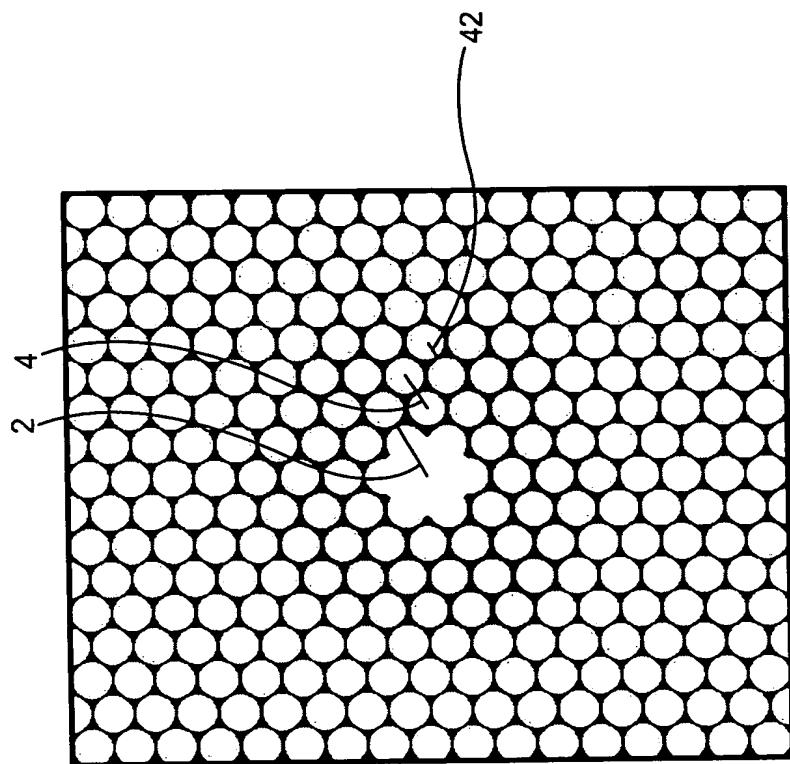


FIG. 15

FIG. 16

Transmission in Periodic Structure

The graph shows two sets of curves representing transmission in a periodic structure. The vertical axis represents transmission, and the horizontal axis represents frequency ω and wavelength λ . The curves are labeled ω_p , ω_s , and ω . The first set of curves, labeled 'Outer Clad' and 'Inner Clad', shows a sharp peak at ω_p and a sharp dip at ω_s . The second set of curves, also labeled 'Outer Clad' and 'Inner Clad', shows a sharp peak at ω_p and a sharp dip at ω_s .

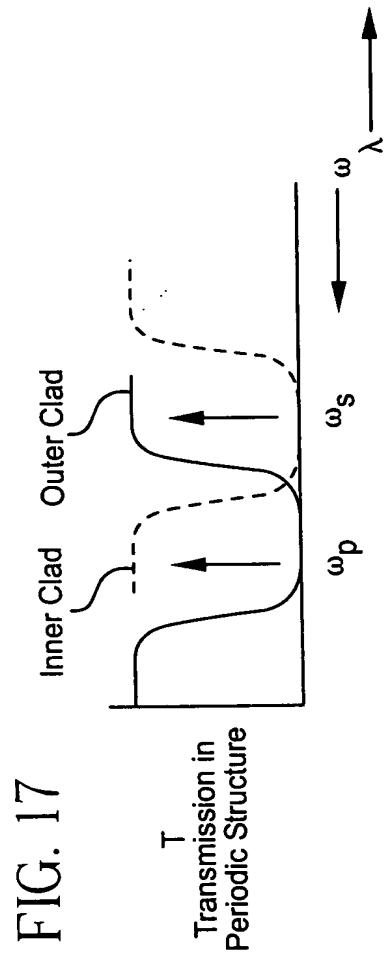


FIG. 18

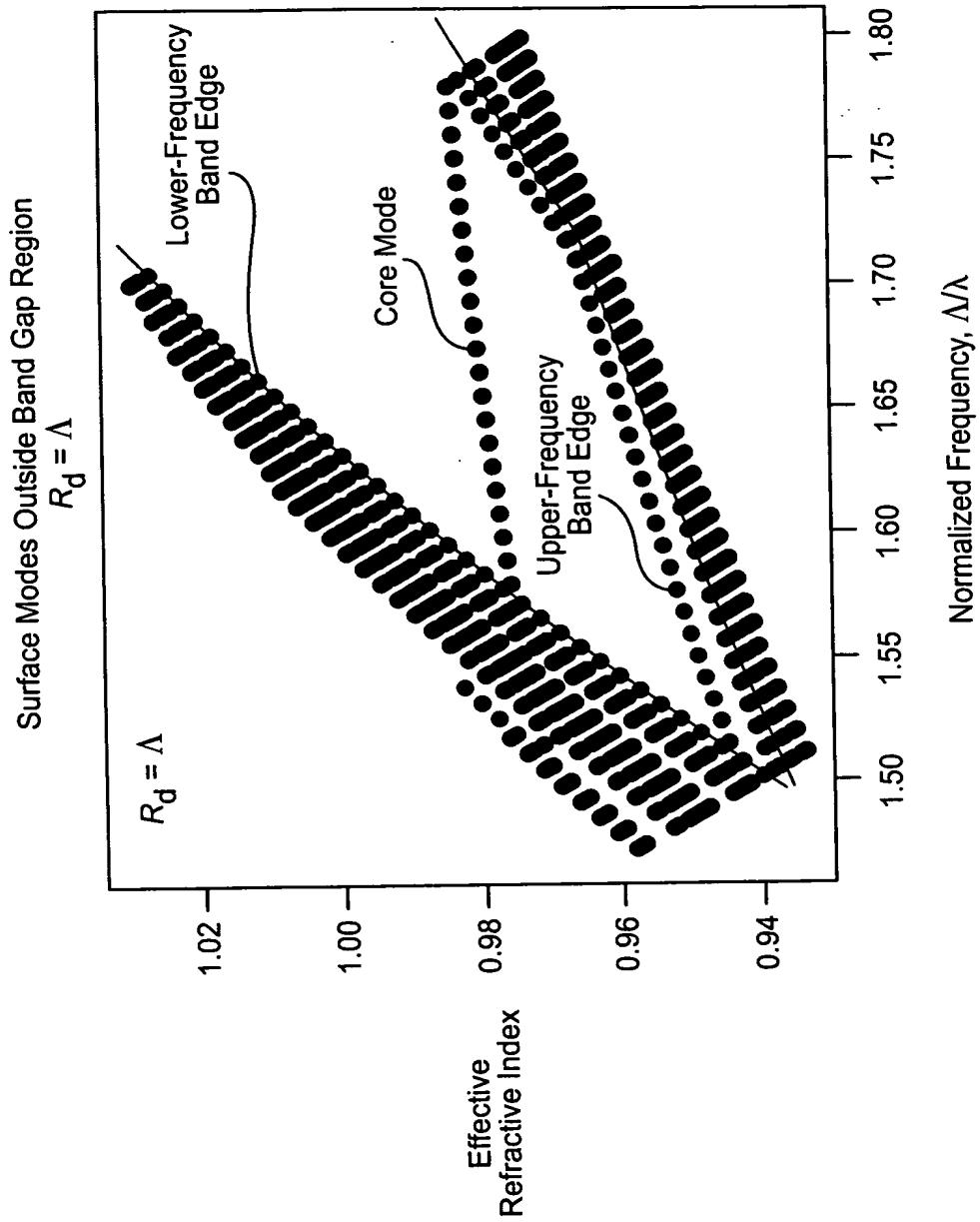
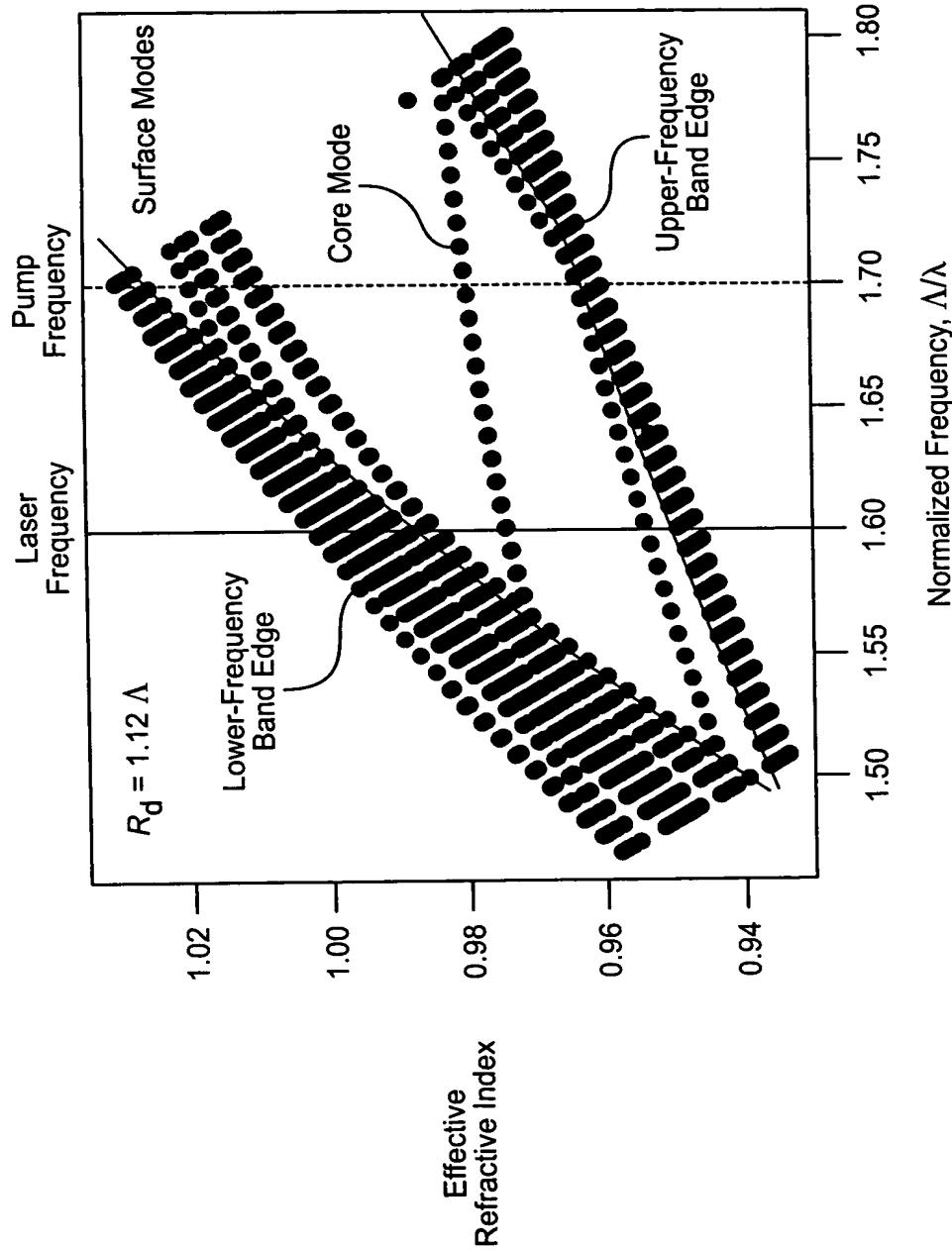


FIG. 19

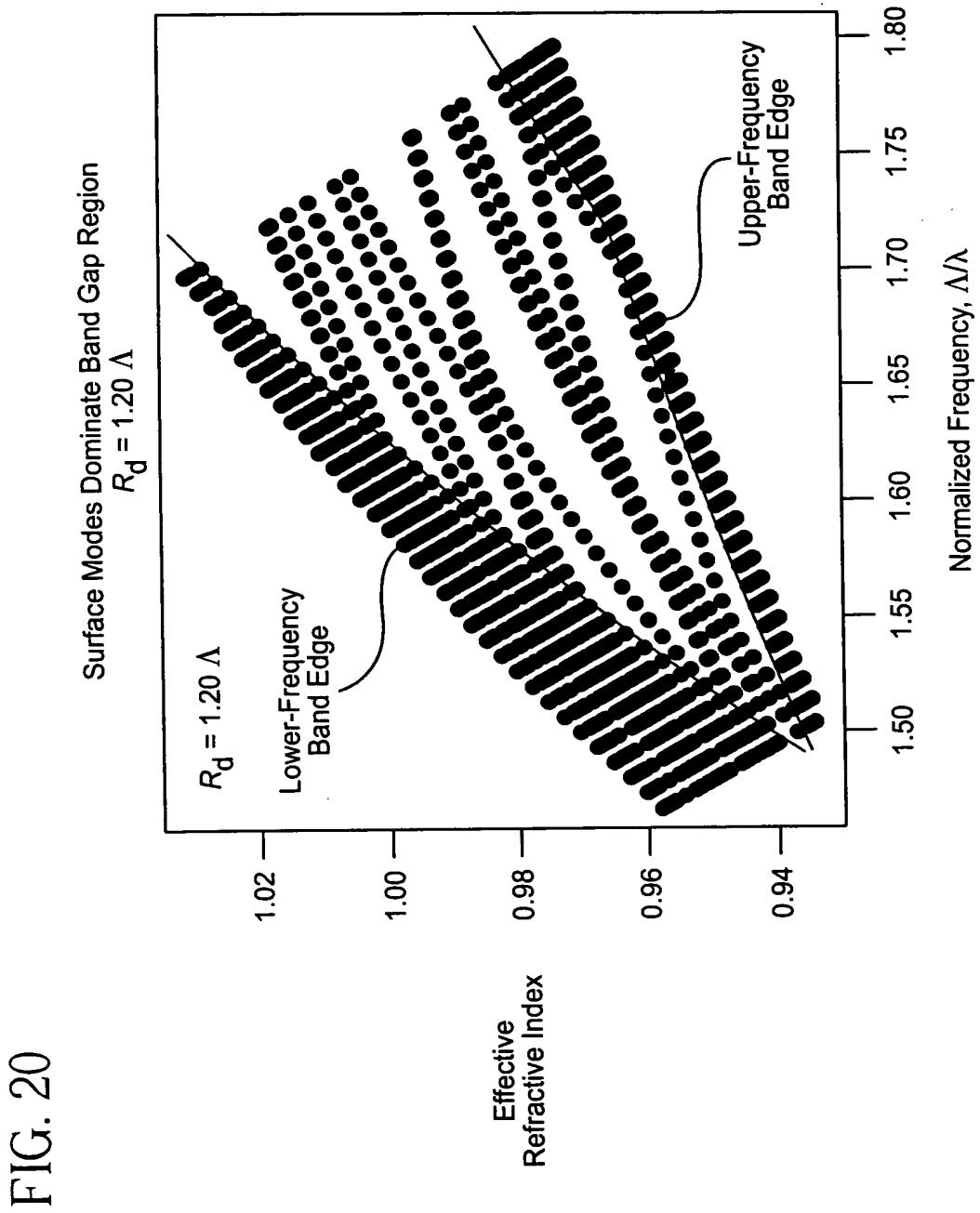
Surface Modes Entering Band Gap Region
 $R_d = 1.12 \Lambda$



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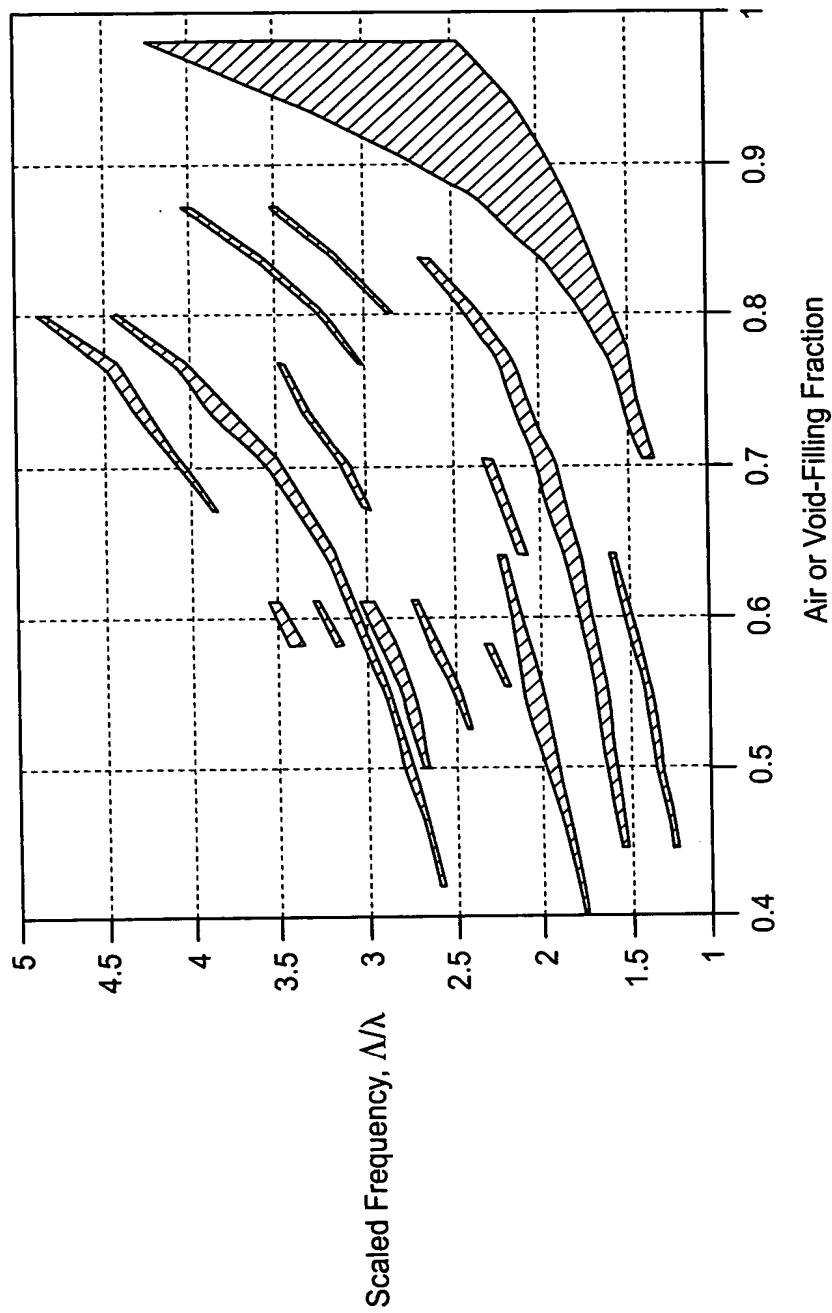
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FIG. 21



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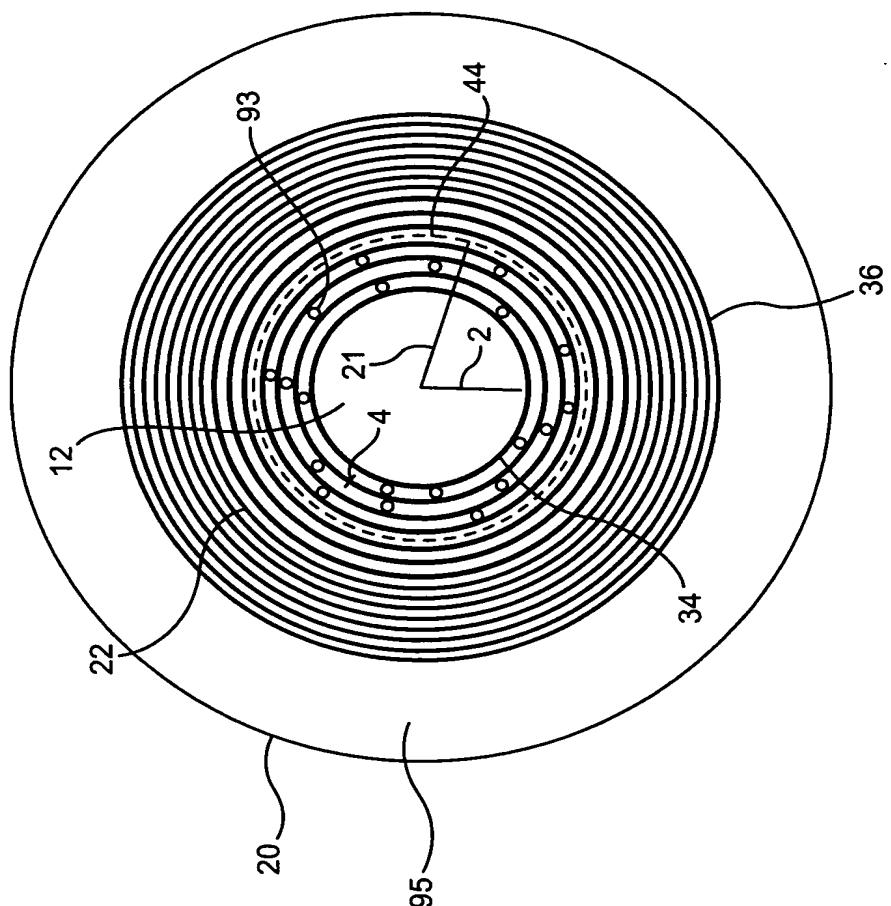


FIG. 22

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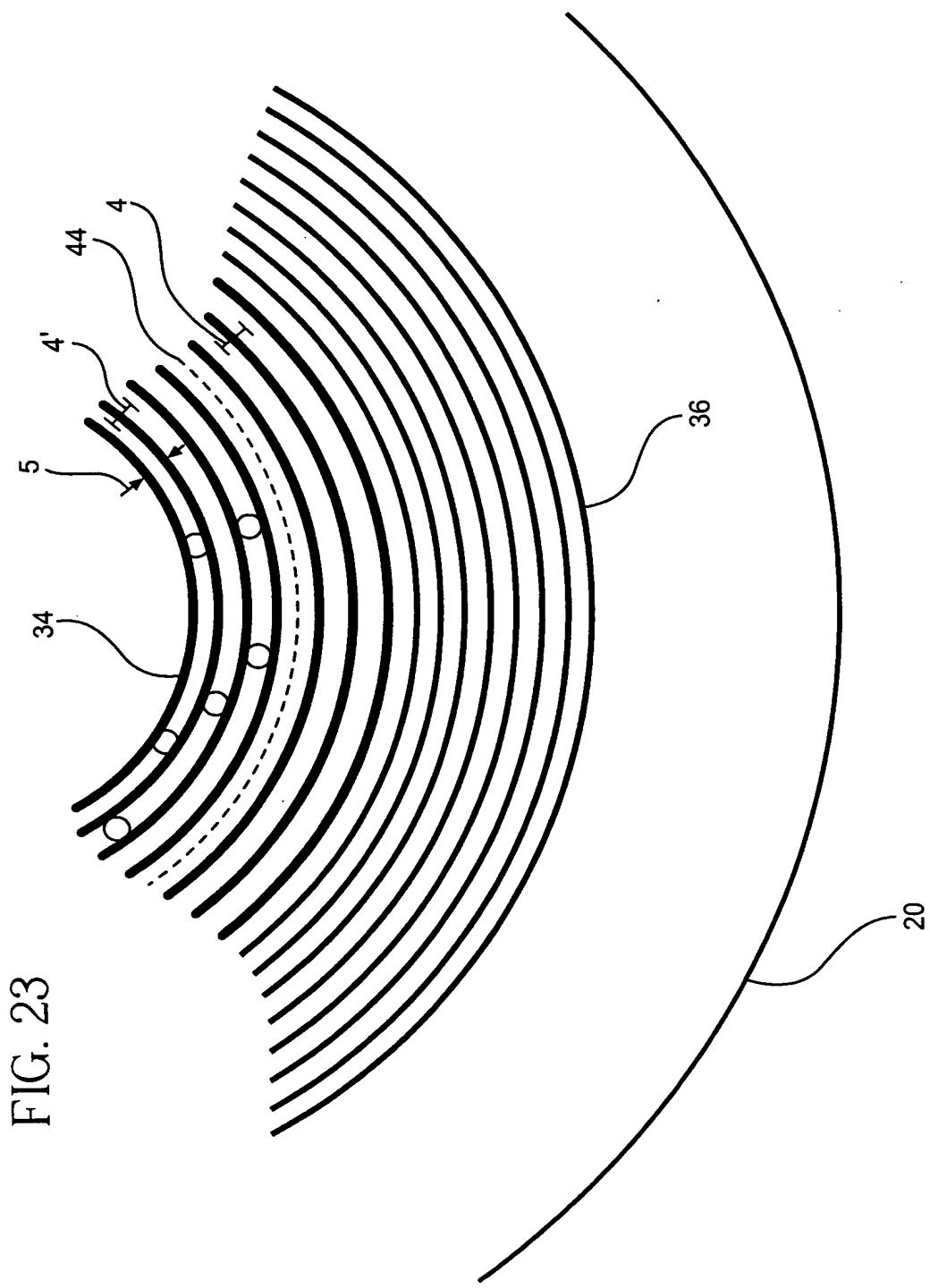


FIG. 23